



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0851-0031

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Substitute for (see 37 CFR 1.449A/PTO)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 6

Complete If Known

Application Number	10/656,091
Filing Date	September 5, 2003
First Named Inventor	Thomas L. Beck
Art Unit	2863
Examiner Name	Michael P. Nghiem
Attorney Docket Number	7855

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
[Signature]	AA	US- 3,343,409	09/26/1967	Gibbs	
	AB	US- 3,585,484	06/15/1971	Dortort	
	AC	US- 3,851,995	12/03/1974	Mills	
	AD	US- 3,854,846	12/17/1974	Douglas	
	AE	US- 3,915,225	10/28/1975	Swink	
	AF	US- 3,918,843	11/11/1975	Douglas et al.	
	AG	US- 3,930,752	01/08/1976	Douglas	
	AH	US- 3,936,231	02/03/1976	Douglas	
	AI	US- 3,938,910	02/17/1976	Douglas	
	AJ	US- 3,951,209	04/20/1976	Gibbs	
	AK	US- 3,963,374	06/15/1976	Sullivan	
	AL	US- 3,965,983	06/29/1976	Watson	
	AM	US- 3,998,568	12/21/1976	Hynd	
	AN	US- 4,058,757	11/15/1977	Welton et al.	
	AO	US- 4,102,394	07/25/1978	Botts	
	AP	US 4,118,148	10/03/1978	Allen	
	AQ	US- 4,145,161	03/20/1979	Skinner	
	AR	US- 4,171,185	10/16/1979	Duke et al.	
	AS	US- 4,194,393	03/25/1980	Boley	
	AT	US- 4,220,440	09/02/1980	Taylor et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)					
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Examiner Signature

[Signature]

Date Considered

10/11/05



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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/656,091
		Filing Date	09/05/2003
		First Named Inventor	Thomas L. Beck
		Art Unit	2863
		Examiner Name	Michael P. Nghiem
Sheet 2 of 6	Attorney Docket Number	7855	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	GIBBS, S.C.: "Predicting the Behavior of Sucker-Rod Pumping Systems", JPT (July 1963, 769-78, Trans, AIME 228).	
	2	GARLOW, M.E.: Sensorless Estimation of a Sucker-Rod Pump Downhold Dynacard", Unico, Inc., August 12, 2002.	
	3	EVERITT, T.A. and JENNINGS, J.W.: An Improved Finite-Difference Calculation of Downhold Dynamometer Cards for Sucker-Rod Pumps", Paper SPE 18189, SPE Production Engineering (February 1992).	
	4	JANSEN, P.L. and LORENZ, R.D.: Accuracy Limitations of Velocity and Flux Estimation in Direct Field Oriented Induction Machines", Power Electronics and Applications, 1993, Fifth European Conference on , 1993; 312-318, Vol. 4.	
	5	LORENZ, R.D. and LAWSON, D.B.: A Simplified Approach to Continuous On-Line Tuning of Field-Oriented Induction Machine Drives", IEEE Transactions on Industry Applications, Vol. 28, No. 3, May/June 1990.	
	6	HASAN, A.R. and KABIR, C.S.: Fluid Flow and Heat Transfer in Wellbores", Society of Petroleum Engineers, Richardson, TX, 2002.	

Examiner Signature		Date Considered	10/11/05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	3	of	6
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Application Number	10/656,091
Filing Date	September 5, 2003
First Named Inventor	Thomas L. Beck
Art Unit	2863
Examiner Name	Michael P. Nghiem
Attorney Docket Number	7855

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code² (if known)			
Ch	AU	US 4,288,925	09/01/1981	Standish	
	AV	US 4,363,605	12/14/1982	Mills	
	AW	US 4,390,321	08/28/1983	Langlois et al.	
	AX	US 4,406,122	09/27/1983	McDuffie	
	AY	US 4,438,628	03/27/1984	Creamer	
	AZ	US 4,474,002	10/02/1984	Perry	
	BA	US 4,476,418	10/09/1984	Werner	
	BB	US 4,480,960	11/06/1984	Streib	
	BC	US 4,483,188	11/20/1984	McTamaney et al.	
	BD	US 4,487,061	12/11/1984	McTamaney et al.	
	BE	US 4,490,094	12/25/1984	Gibbs	
	BF	US 4,507,055	03/26/1985	Fair et al.	
	BG	US 4,508,487	04/02/1985	Taylor et al.	
	BH	US 4,508,488	04/02/1985	Pikna	
	BI	US 4,509,901	04/09/1985	McTamaney et al.	
	BJ	US 4,534,168	08/13/1985	Brantly	
	BK	US 4,534,706	08/13/1985	Palm et al.	
	BL	US 4,541,274	09/17/1985	Purcupie	
	BM	US 4,583,915	04/22/1986	Montgomery et al.	
Ch	BN	US 4,594,665	08/10/1986	Chandra et al.	

FOREIGN PATENT DOCUMENTS

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Examiner Signature	<i>[Signature]</i>	Date Considered	<i>10/11/05</i>
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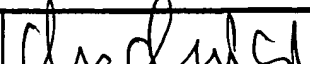
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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/656,091
		Filing Date	September 5, 2003
		First Named Inventor	Thomas L. Beck
		Art Unit	2863
		Examiner Name	Michael P. Nghiem
Sheet 4 of 6	Attorney Docket Number	7855	

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
[Signature]	BO	US 4,631,954	12/30/1988	Mills	
	BP	US 4,661,751	04/28/1987	Wemar	
	BQ	US 4,681,167	07/21/1987	Soderberg	
	BR	US 4,695,779	09/22/1987	Yates	
	BS	US 4,741,397	05/03/1988	Weeks	
	BT	US 4,747,451	05/21/1988	Adams Jr. et al.	
	BU	US 4,830,112	05/18/1989	Erickson	
	BV	US 4,859,151	08/22/1989	Reed	
	BW	US 4,873,635	10/10/1989	Mills	
	BX	US 4,935,685	06/19/1990	Justus et al.	
	BY	US 4,971,522	11/20/1990	Butlin	
	BZ	US 4,973,228	11/27/1990	McKee	
	CA	US 5,006,044	04/09/1991	Walker Sr. et al.	
	CB	US 5,044,888	09/03/1991	Hester II	
	CC	US 5,064,349	11/12/1991	Turner et al.	
	CD	US 5,129,267	07/14/1992	Nicholls	
[Signature]	CE	US 5,167,490	12/01/1992	McKee et al.	
	CF	US 5,180,289	01/19/1993	Wenholz et al.	
	CG	US 5,204,595	04/20/1993	Opal et al.	
	CH	US 5,222,867	06/29/1993	Walker Sr. et al.	

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	10/1/05
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MW/1213126

PTO/SB/08a (08-03)

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Application Number	10/656,091
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Sheet 5 of 6

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		Number - Kind Code ² (if known)			
da	CI	US 5,224,834	07/08/1993	Westerman et al.	
	CJ	US 5,230,607	07/27/1993	Mann	
/	CK	US 5,237,863	08/24/1993	Dunham	
	CL	US 5,246,076	09/21/1993	Watson	
	CM	US 5,251,696	10/12/1993	Boons et al.	
	CN	US 5,252,031	10/12/1993	Gibbs	
	CO	US 5,281,100	01/25/1994	Diederich	
	CP	US 5,284,422	02/08/1994	Turner et al.	
	CQ	US 5,316,085	05/31/1994	Dawson	
	CR	US 5,318,409	06/07/1994	London et al.	
	CS	US 5,362,206	11/08/1994	Westerman et al.	
	CT	US 5,372,482	12/13/1994	London et al.	
	CU	US 5,425,623	06/20/1995	London et al.	
	CV	US 5,441,389	08/15/1995	Wolcott et al.	
	CW	US 5,444,609	08/22/1995	Swamy et al.	
	CX	US 5,458,466	10/17/1995	Mills	
	CY	US 5,634,522	06/03/1997	Hershberger	
/	CZ	US 5,818,849	10/13/1998	Booth	
	DA	US 5,823,262	10/20/1998	Dutton	
	DB	5,829,530	11/03/1998	Nolen	

[illegible]

10/11/02

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		Filing Date	September 5, 2003
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(Use as many sheets as necessary)		Attorney Docket Number	7855
Sheet	6	of	6

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[Handwritten Initials]	DC	US 5,888,029	02/09/1999	Paine	
	DD	US 5,941,305	08/24/1999	Thrasher et al.	
	DE	US 5,998,681	12/07/1999	Norris et al.	
	DF	US 6,041,856	03/28/2000	Thrasher et al.	
	DG	US 6,043,569	03/28/2000	Ferguson	
	DH	US 6,079,491	06/27/2000	Stuebinger et al.	
	DI	US 6,092,600	07/25/2000	McKinzie et al.	
	DJ	US 6,127,743	10/03/2000	Levin et al.	
	DK	US 6,129,110	10/10/2000	Kolb	
	DL	US 6,155,347	12/05/2000	Mills	
	DM	US 6,178,682	01/23/2001	Mills	
	DN	US 6,484,464	10/15/2002	Sabini et al.	
	DO	US 6,585,041	07/01/2003	Crossley	
	DP	US 5,129,264	07/14/1992	Lorenc	

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